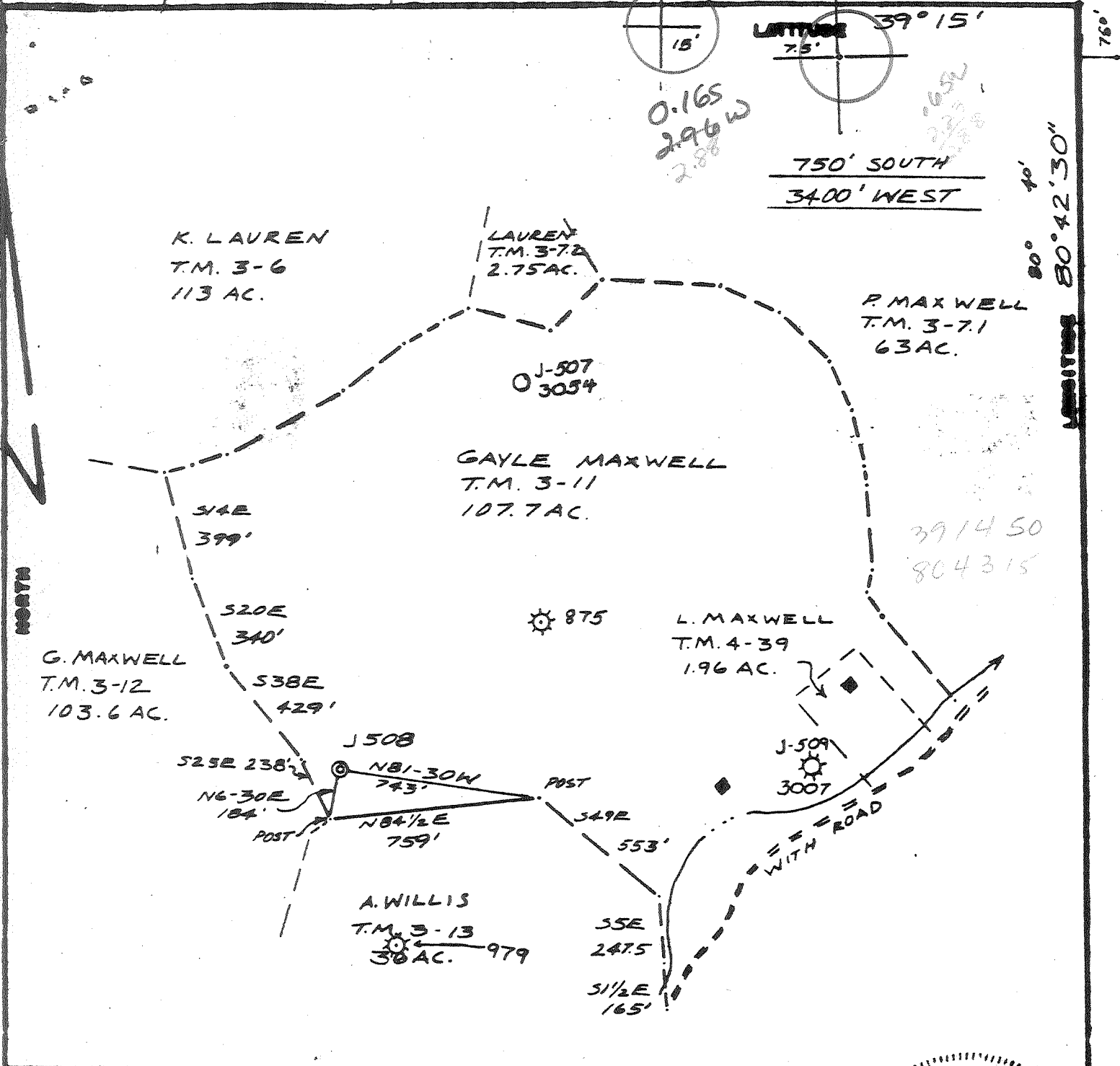


Plot Card CSI-7A

0.165
2.96W
2.88

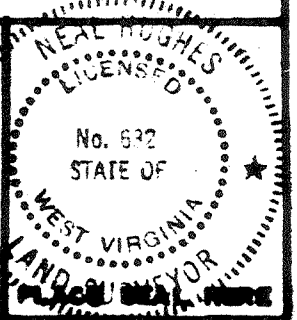
3400'
LATITUDE 39° 15'
75'
750' SOUTH
3400' WEST

80° 42' 30"



FILE NO. H-31
DRAWING NO. 2
SCALE 1"=500
MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION RD INTER 827

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.
(SIGNED) Neal Hughes
R.P.E. _____ L.L.S. 1232



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
FORM IV-B
(8-78)



DATE MARCH 31, 1981
OPERATOR'S WELL NO. 1508
API WELL NO. 47-017-3059
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
(IF "GAS", PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW _____)
LOCATION: ELEVATION 1170' WATER SHED LICK RUN
DISTRICT NEW MILTON COUNTY DODDRIDGE
QUADRANGLE NEW MILTON 7.5' JACOBS 15' NW
SURFACE OWNER GAYLE MAXWELL ACREAGE 107.7
OIL & GAS ROYALTY OWNER LEWIS MAXWELL LEASE ACREAGE 90
LEASE NO. H-31
PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REBRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
TARGET FORMATION Alexander ESTIMATED DEPTH 5400
WELL OPERATOR J. T. Kolar, Inc. DESIGNATED AGENT James R. Willett
ADDRESS P.O. Box 47 ADDRESS P.O. Box 47
Buckhannon, W.V. 26201 Buckhannon, W.V. 26201
0-6 SM ITHTON PLINT. - SE. DAW 99 26201

NOV 16 1981

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Alexander: Perforations: 5213-5239 (5 holes)
Fracturing: 150 sks. 80/100 sand: 400 sks. 20/40 sand: 250 Bbls. fluid.

Benson: Perforations: 4900-02 (3 holes)
Fracturing: 100 sks. 80/100 sand: 280 sks. 20/40 sand: 500 gal. Acid. 250 Bbls.

Speechley: Perforations: 3355-57 (4 holes)
3257-3294 (6 holes)
Fracturing: 112 sks. 80/100 sand: 500 gal. Acid. 150 Bbls. fluid.

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all Green and salt water, coal, oil and gas
Fill & red rock			0	15	
Red rock & shale			15	25	Damp @ 125'
Shale & sand			25	48	
Sand, shale & red rock			48	1030	Gas ck @ 2081 10/10-1/2" w/water 5,955 cu.ft.
Sand & shale			1030	1870	
Big Lime			-1870	1945	
Big Injun			1945	2005	Gas ck @ 2517 5/10-1/2" w/water 4,309 cu.ft.
Sand & shale			2005	3257	
Speechley			3257	3357	Gas ck @ 3445 2/10-1/2" w/water 2,883 cu.ft.
Sand & shale			3357	4880	
Benson			-4880	4900	
Sand & shale			4900	5213	Gas ck @ 4806 26/10-1/2" w/water 9,810 cu.ft.
<u>Alexander</u>			5213	5239	
Sand & shale			5239	5426	Gas ck @ 4930 3/10-1/2" w/water 3,240 cu.ft.
				TD	
					Gas ck @ 5364 2/10-1/2" w/water 2,883 cu.ft.

(Attach separate sheets as complete as necessary.)

J&J Enterprises, Inc.

Well Operator _____
By Peter Battles
Its Peter Battles Geologist _____

NOTE: Regulation 2.02(d) provides as follows:
"The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including coal, encountered in the drilling of a well."

[08-78]

JUL 7 - 1982

Operator's Well No. J-508

API Well No. 47-017-3059
State County Permit

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES
STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas X / Liquid Injection Waste Disposal
(If "Gas", Production X / Underground storage / Deep / Shallow X)

LOCATION: Elevation: 1170 Watershed: Lick Run
District: New Milton County: Doddridge Quadrangle: New Milton 7.5'

WELL OPERATOR J&J Enterprises, Inc. DESIGNATED AGENT H.L. Barnett
Address P.O. Box 48 Address P.O. Box 48
Buckhannon, WV 26201 Buckhannon, WV 26201

PERMITTED WORK: Drill X / Convert / Drill deeper / Redrill / Fracture or stimulate X
Plug off old formation / Perforate new formation
Other physical change in well (specify)

PERMIT ISSUED ON 10/23, 19 81 OIL & GAS INSPECTOR FOR THIS WORK:

(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REMORKING. VERBAL PERMISSION OBTAINED) Name Stephen Casey
Address Rt. 2, Box 232-D
Jane LEW, WV 26378

GEOLOGICAL TARGET FORMATION: Alexander Depth 5213-5239 feet

Depth of completed well, 5426 feet Rotary X / Cable Tools

Water strata depth: Fresh, 125 feet; salt, 0 feet.

Coal seam depths: 0 Is coal being mined in the area: NO

Work was commenced 6/2, 19 82, and completed 6/8, 19 82

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling	Left in well		
Conductor	11 3/4	H-40	42	x		31	31	0 sks.	Kinds
Fresh water	8 5/8	ERW	23	x		1217.85	1217.85	300 sks.	
Coal	8 5/8	ERW	23	x		1217.85	1217.85	300 sks.	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	x		5325.30	5325.30	680 sks.	Downs set
Tubing									
Liners									Perforations:
									1946-1950
									2371-2374
									2585-2603
									3257-3357
									4900-4902
									4991-4995
									5213-5239

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5213-5239 feet

Gas: Initial open flow, Mcf/d Oil: Initial open flow, Bbl/d

Combined Final open flow, 189 Mcf/d Final open flow, Bbl/d

Time of open flow between initial and final tests, 6 hours

Static rock pressure, 500 psig (surface measurement) after 96 hours shut in

(If applicable due to multiple completion--)

Second producing formation Benson & Speechley Pay zone depth 4991-4995 feet

Gas: Initial open flow, Mcf/d Oil: Initial open flow, Bbl/d

Final open flow, Mcf/d Final open flow, Bbl/d

Time of open flow between initial and final tests, hours

Bottom Hole Pressure Static rock pressure, psig (surface measurement) after hours shut in

Pf=PweXGLS

$t=60+0.0075 \times 5325 + 459.7 = 560$ $X=53.35 \times 560 = 29857$ $=0.0000335$ $Pf=500 \times 2.72 (0.0000335) (0.67)$
 $(4297) (0.9) = 500 \times 272^{0.087} = 500 \times 1.09 = 545$ psi

JUL 19 1982

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-508

API Well No. 47 - 017 3059
State County Permit

WELL TYPE: Oil / Gas

(If "Gas", Production / Underground storage / Deep / Shallow)

LOCATION: Elevation: 1170 Watershed: Lick Run
District: New Milton County: Doddridge Quadrangle: New Milton 7.5'

WELL OPERATOR J & J Enterprises, Inc.
Address P.O. Box 48
Buckhannon, WV 26201

DESIGNATED AGENT James R. Willett
Address P.O. Box 48
Buckhannon, WV 26201

OIL & GAS ROYALTY OWNER Lewis Maxwell C/O Haymond Maxwell
Address Box 47
Clarksburg, WV 26301

COAL OPERATOR None
Address _____

ACREAGE 90
SURFACE OWNER Gale Maxwell
Address Rt. # 1
New Milton, West Va. 26411
Acreage 107.7

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Gale Maxwell
Address Rt. # 1
Buckhannon, WV 26201

FIELD SALE (IF MADE) TO:
Name Unknown
Address _____

Name _____
Address _____

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Steve Casey
Address Rt.2 Box 232-n
Jane Lew, WV 26378

COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address _____

RECEIVED
OCT 23 1981

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease / other contract / dated 8/15, 1981, to the undersigned well operator from _____

If said deed, lease, or other contract has been recorded:]
Recorded on 9/24, 1981, in the office of the Clerk of the County Commission of Doddridge county, West Virginia, in Lease Book 122 at page 103. A permit is requested as follows:

PROPOSED WORK: Drill / Drill deeper / Redrill / Fracture or stimulate /
Plug off old formation / Perforate new formation /
Other physical change in well (specify) _____

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code § 22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOLOGICAL LOGS DIRECTLY TO:

WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
615 WASHINGTON STREET EAST
CHARLESTON, WV 25311

TELEPHONE: (304) 348-3092

BLANKET BOND

J & J Enterprises, Inc.
Well Operator

By Daniel F. Stark
Daniel F. Stark
Its Geologist

[08-78]

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) S.W. Jack Drilling Company

Address P.O. Box 48

Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5400 feet Rotary x / Cable tools /

Approximate water strata depths: Fresh, 140 feet; salt, 160 feet.

Approximate coal seam depths: None Is coal being mined in the area? Yes / No x

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling	Left in well		
Conductor	11 3/4	H-40	42	x		30	0	0 sks.	Kinds
Fresh water	8 5/8	ERW	23	x		1600	1600	300 sks.	
Coal	8 5/8	ERW	23	x		1600	1600	300 sks.	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	x		5350	5350	400 sks.	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and this permit must be filed in connection therewith.

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 7-10-82.

[Signature]
Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code § 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator / owner / lessee / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: , 19

By

Its